



5/20/2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Igor Troitski Art Unit: 1725
Application No : 10-075,018
Filing date : 02-14-2002
For : System for high-speed production of high quality laser-induced
damage images inside transparent materials
Examiner : M. Alexandra Elve

RECEIVED
SEP 11 2003
TC 170

RESPONSE TO OFFICE ACTION

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

This is in response to the Office Action mailed 08/18/2003 with respect to the
above referenced application.

Please amend the application as follows:

IN THE CLAIMS:

Please cancel Claims 1&3-6 pending in the application.

Please examine Claim 2, which is rewritten in independent form:

Claim 2 (currently amended): The system ~~in accordance with claim 1~~ wherein several
separate breakdown centers inside each laser-induced damage created by using the
computing phase hologram; the right phase structure of the computing phase hologram is
calculated so that the laser beam passing through the hologram is focused at several
spots; these spots are located inside damage area and the distances between adjacent
spots are larger than distance threshold d_0 (d_0 is a minimal distance which avoids an
internal split between the separate small damages inside the damage area).

Please add the following new Claims:

Claim 7 (new): Method for high-speed production of high quality laser-induced damage
image inside transparent material comprising: